

Docket No.: 60097-0145

AMENDMENTS TO THE CLAIMS

Please amend Claims 1 and 14 as follows:

- 1 1. (currently amended) A method for providing access between a first party and a
2 second party, said method comprising the steps of:
3 generating a challenge value at said first party;
4 transmitting said challenge value to said second party;
5 generating a response value using a lock value and said challenge value at said
6 second party;
7 wherein said lock value indicates a desired access mode;
8 transmitting said response value to said first party; and
9 validating said response value by said first party.
- 1 2. (original) The method of Claim 1, wherein said first party is a disk drive and said
2 second party is a host computer.
- 1 3. (original) The method of Claim 2, wherein said disk drive is locked when not accessed.
- 1 4. (previously presented) The method of Claim 1, further including:
2 using 512 bits for said challenge value and using 512 bits for said lock value.
- 1 5. (previously presented) The method of Claim 1, further including:
2 randomly generating said challenge value.
- 1 6. (previously presented) The method of Claim 1, further including:
2 using a disk drive controller to generate said challenge value.
- 1 7. (previously presented) The method of Claim 1, wherein said step of generating said
2 response value further includes:
3 using an exclusive OR (XOR) to combine said challenge and said lock value.

Docket No.: 60097-0145

1 8. (previously presented) The method of Claim 1, wherein said step of generating said
2 response value further includes:
3 using 160 bits for said response value.

1 9. (previously presented) The method of Claim 1, wherein said step of generating said
2 response value further includes:
3 using a cryptography circuit to generate said response value.

1 10. (previously presented) The method of Claim 9, wherein said step of generating said
2 response value further includes the step of using an algorithm to generate said response
3 value.

1 11. (previously presented) The method of Claim 6, wherein said step of generating said
2 response value further includes:
3 using a secure hash algorithm to generate said response value.

1 12. (previously presented) The method of Claim 11, wherein said step of validating said
2 response value further includes:
3 wherein said disk drive controller receives the challenge and lock value;
4 computing a duplicate response value on said disk drive controller by performing a
5 duplicate secure hash algorithm; and
6 comparing said response value to said duplicate response value.

1 13. (previously presented) The method of Claim 12, wherein said step of validating said
2 response value further includes:
3 unlocking the disk drive in accordance with the desired access mode indicated by the
4 lock value if the response and duplicate response values match.

1 14. (currently amended) An apparatus for providing access between a first party and a
2 second party, said apparatus comprising:
3 means for generating a challenge value at said first party;
4 means for transmitting said challenge value to said second party;

P0017

Docket No.: 60097-0145

5 means for generating a response value using a lock value and said challenge value at
6 said second party;
7 wherein said lock value indicates a desired access mode;
8 means for transmitting said response value to said first party; and
9 means for validating said response value by said first party.

1 15. (original) The apparatus of Claim 14, wherein said first party is a disk drive and said
2 second party is a host computer.

1 16. (original) The apparatus of Claim 15, wherein said disk drive is locked when not
2 accessed.

1 17. (previously presented) The apparatus of Claim 14, further including:
2 means for using 512 bits for said challenge value and using 512 bits for said lock
3 value.

1 18. (previously presented) The apparatus of Claim 14, further including:
2 means for randomly generating said challenge value.

1 19. (previously presented) The apparatus of Claim 14, further including:
2 means for using a disk drive controller to generate said challenge value.

1 20. (previously presented) The apparatus of Claim 14, wherein said means for generating
2 said response value further includes:
3 means for using an exclusive OR (XOR) for combining said challenge and said lock
4 values.

1 21. (previously presented) The apparatus of Claim 14, wherein said means for generating
2 said response value further includes:
3 means for using 160 bits for said response value.

P0017

Docket No.: 60097-0145

1 22. (previously presented) The apparatus of Claim 14, wherein said means for generating
2 said response value further includes:
3 a cryptography circuit for generating said response value.

1 23. (previously presented) The apparatus of Claim 22, wherein said means for generating
2 said response value further includes an algorithm for generating said response value.

1 24. (previously presented) The apparatus of Claim 14, wherein said means for generating
2 said response value further includes:
3 a secure hash algorithm for generating said response value.

1 25. (previously presented) The apparatus of Claim 19, wherein said means for validating
2 said response value further includes:
3 wherein said disk drive controller receives challenge and lock value;
4 means for computing a duplicate response value on said disk drive controller by
5 performing a duplicate secure hash algorithm; and
6 means for comparing said response value to said duplicate response value.

1 26. (previously presented) The apparatus of Claim 15, wherein said means for validating
2 said response value further includes:
3 means for unlocking the disk drive in accordance with the desired access mode
4 indicated by the lock value if the response and duplicate response values match.

1 27. (previously presented) The apparatus of Claim 15, wherein said means for validating
2 said response value further includes:
3 means for unlocking the disk drive in accordance with the desired access mode
4 indicated by the lock value if the response value is valid.

P0017

Docket No.: 60097-0145

- 1 28. (previously presented) The method of Claim 1, wherein said step of validating said
- 2 response value further includes:
- 3 unlocking the disk drive in accordance with the desired access mode indicated by the
- 4 lock value if the response value is valid.

P0017